



Indian Institute of Science

CENTRE FOR CAMPUS MANAGEMENT AND DEVELOPMENT

Bangalore 560 012, (India)

Phone: 080-2293 2008/2202/2203

email: office.ccmd@iisc.ac.in

NOTICE INVITING QUOTATIONS

Date: 27.04.2020

Sealed Item rate quotations are invited by the Registrar, Indian Institute of Science, Bangalore for the following work. Sealed Quotations will be received up to 15.00 hrs on 01.05.2020 and will be opened on the same day at 15.30 hrs.

Name of the work: Replacement of faulty Transformer with 750 KVA Transformer in SS-10 at IISc, Bangalore.

Earnest Money Deposit: Rs.30,512 (in the form of DD)

Security Deposit: 6% of contract amount (Will be released after defect liability period of one year)

Conditions:

1. Prospective vendors should have executed at least three similar nature of works in Central/State/PSU/Autonomous/reputed Organizations. (Self-attested proof to be enclosed)
2. Prospective vendors should have the valid CLASS I (ELECTRICAL) Licence issued by any State Electrical Licencing Authority. (Self-attested copy to be enclosed)
3. Average Annual financial turnover during the last three years, ending 31st March of 2019, should be not less than Rs. 50 Lacs. (Self-attested CA certificate to be enclosed)

Name of work : Replacement of faulty Transformer with 750 KVA Transformer in SS-10 at IISc, Bangalore.					
SI No	Item Description	Unit	Qty	Unit Rate	Total
1	Supply, Installation, Testing & Commissioning of of 750KVA, 11KV/433V, Oil cooled Transformer with OCTC as per IS-1180 as per detailed specification enclosed. (Make :Universal/Voltamp/Kirloskar)	Job	1		
2	Supplying and laying of high tension 11KV cable, Dry Curing & Dry Cooling with true triple extrusion, simultaneously through a single common head, 3 core under ground XLPE (E) cable having stranded compact circular aluminium conductor, screened insulated, insulation screened with extruded semiconducting compound in combination with copper tape, core laid up extruded inner sheathed of GI flat strip armoured and overall PVC sheathed with specified IS 7098/11/85 with latest amendments & confirming .				
	3Cx95 sqmm	Mtr	25		
3	Supplying and making outdoor cable end jointing with cast resin compound, including lugs and other jointing materials, for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required.				
	3Cx95 sqmm	Each	2		
4	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP.				
	3.5 core 300 sqmm	Mtr	90		
5	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.	Mtr	90		
6	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
	3.5 core 300 sqmm (70mm)	Each	6		
	Sub total for supply items				
	Buy back item				
1	500 KVA Transformer	Each	1		
	Sub total for Buy back items				
	Total after deduction for buyback items				
	GST @ 18%				
	Grand Total				

Signature of vendor with seal

Technical Specifications		
1	Name of Manufacturer	Universal/Voltamp/Kirloskar
2	Reference Standard	IS 1180 Level 3
3	KVA rating	750
4	Type of cooling	ONAN
5	Number of phases & rated frequency	3 & 50Hz
6	Rated voltage at no load HV/LV (in kV)	11 / 0.433
7	Connection (HV/LV) & Vector group	Delta / Star & Dyn 11
8	Insulation level- HV/LV	LI 75 AC 28 /AC 3
9	Type of Tap changer	Off Load Tap Changer
10	Tap range, Number of steps, Step size & Location	+5% to -10% in steps of 2.5% each (6 steps / 7 positions)
11	Temperature rise of top oil / winding (degree C)	40 / 45
12	Total loss @ 50% Loading	
13	Total Loss @ 100% Loading	
14	% Impedance volts at 75 ⁰ C, rated current & frequency	5.0% Sub to +/- IS Tol
15	% Efficiency @ UPF & 0.8 PF Lag	
	a. 100% Load	
	b. 75% Load	As per IS 1180 Level 3 Losses
	c. 50% Load	
	d. 25% Load	
16	% Regulation at Full load and at UPF / at 0.8 pF Lag	As per IS 1180 Level 3 Losses
17	Approx. weights in kgs	
	a. Core & winding	
	b. Tank & Fittings	
	c. Oil	
	d. Total weight	
18	Approx. overall dimensions in mm (L x B x H)	
19	Approx. Transport dimensions in mm (L x B x H)	
20	Approx. Transport Weight in kgs	
21	Terminations HV / LV	HV & LV Cable box LV Cable Box should have provision for 3 nos. 3.5 core 300 Sqmm UG cable termination